

Product datasheet for **RC238419**

YAP1 (NM_001282099) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | YAP1 (NM_001282099) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | YAP1 |
| Synonyms: | COB1; YAP; YAP2; YAP65; YKI |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RC238419 representing NM_001282099
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCCCGGGCAGCAGCCGCCCTCAACCGGCCCCAGGGCCAAGGCAGCCGCTTCGCAGCCCC
 CGCAGGGGCAGGGCCCGCGTCCGGACCGGGCAACCGCACCCGCGGACCCAGGCGGCGCCGAGGC
 ACCCCCCGCCGGGCATCAGATCGTGCACGTCCGCGGGACTCGGAGACCGACCTGGAGGCGCTTCAAC
 GCCGTCATGAACCCCAAGACGGCCAACGTGCCAGACCGTGCCATGAGGCTCCGGAAGCTGCCGACT
 CCTTCTCAAGCCGCGGAGCCAAATCCACTCCCGACAGGCCAGTACTGATGCAGGACTGCAGGAGC
 CCTGACTCCACAGCATGTTGAGCTCATTCTCTCCAGCTTCTCTGCAGTTGGGAGCTGTTTCTCTGGG
 AACTGACCCCACTGGAGTAGTCTCTGGCCAGCAGCTACACCCACAGCTCAGCATCTTCGACAGTCTT
 CTTTTGAGATACCTGATGATGTACCTCTGCCAGCAGGTTGGGAGATGGCAAAGACATCTTCTGGTCAGAG
 ATACTTCTTAAATCACATCGATCAGACAACAACATGGCAGGACCCAGGAAGGCCATGCTGTCCCAGATG
 AACGTCACAGCCCCACCACTCCAGTGCAGCAGAATATGATGAACTCGGCTTCAGCCATGAACCAGA
 GAATCAGTCAGAGTGCTCCAGTGAACAGCCACCCCTGGCTCCCCAGAGCCACAGGGAGGCGTCAT
 GGGTGGCAGCAACTCAAACAGCAGCAACAGATGCGACTGCAGCAACTGCAGATGGAGAAGGAGAGGCTG
 CGGCTGAAACAGCAAGAAGTCTTCGGCAGGTGAGGCCACAGGCAATGCGGAATATCAATCCCAGCACAG
 CAAATTCTCAAATGTCAGGAGTTAGCCCTGCGTAGCCAGTTACCAACTGGAGCAGGATGGTGGGAC
 TCAAAATCCAGTGTCTTCTCCGGGATGTCTCAGGAATTGAGAACAATGACGACCAATAGCTCAGATCCT
 TTCTTAAACAGTGGCACCTATCACTCTCGAGATGAGAGTACAGACAGTGGACTAAGCATGAGCAGCTACA
 GTGTCCCTCGAACCCAGATGACTTCTGAACAGTGTGGATGAGATGGATACAGGTGATACTATCAACCA
 AAGCACCTGCCCTCACAGCAGAACCGTTTCCAGACTACCTTGAAGCCATTCTGGGACAAATGTGGAC
 CTTGGAACACTGGAAGGAGATGGAATGAACATAGAAGGAGAGGAGCTGATGCCAAGTCTGCAGGAAGCTT
 TGAGTTCTGACATCCTTAATGACATGGAGTCTGTTTTGGTCCCAAGCTAGATAAAGAAAGCTTTCT
 TACATGGTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238419 representing NM_001282099
 Red=Cloning site Green=Tags(s)

MDPQQPPPQPAPQGGQPPSQPPQGGPPSGPQPAPAATQAAPQAPPAGHQIVHVRGDSETDLEALFN
 AVMNPKTANVPQTVPMRLRKLPSFFKPEPKSHSRQASTDAGTAGALTPQHVRHSSPASLQLGAVSPG
 TLTPGVVSGPAATPTAQLRQSSFEIPDDVPLPAGWEMAKTSSGQRYFLNHIDQTTTWQDPRKAMLSQM
 NVTAPTSPVQQNMNSASAMNQRISQAPVKQPPPLAPQSPQGGVMGGSNSNQQQMRLQQLQMEKERL
 RLKQQLLRQVRPQAMRNINPSTANSPKCQELALRSQPLTEQDGGTQNPVSSPGMSQELRTMTTNSDP
 FLNSGTYHSRDESTDGLSMSSYSVPRTPDDFLNSVDEMDTGDTINQSTLPSQQNRPDYLEAIPGTNVD
 LGTLEGDGMNIEGELMPSLQEALSSDILNDMESVLAATKLDKESFLTWL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

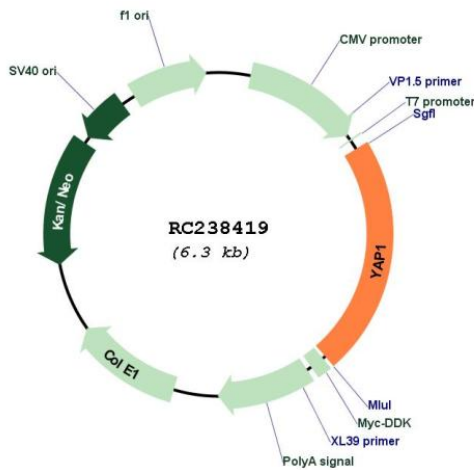
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001282099

ORF Size:

1410 bp

OTI Disclaimer:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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|-------------------------------|---|
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | <u>NM_001282099.1</u> , <u>NP_001269028.1</u> |
| RefSeq Size: | 5294 bp |
| RefSeq ORF: | 1413 bp |
| Locus ID: | 10413 |
| UniProt ID: | <u>P46937</u> |
| Cytogenetics: | 11q22.1 |
| Protein Families: | Druggable Genome |
| MW: | 50.9 kDa |
| Gene Summary: | This gene encodes a downstream nuclear effector of the Hippo signaling pathway which is involved in development, growth, repair, and homeostasis. This gene is known to play a role in the development and progression of multiple cancers as a transcriptional regulator of this signaling pathway and may function as a potential target for cancer treatment. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2013] |